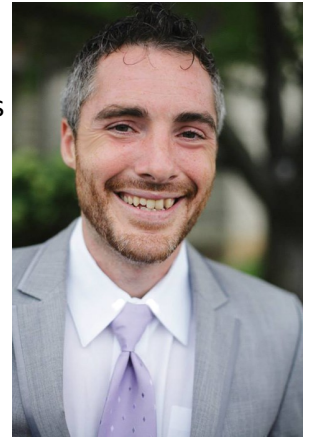


Bio:

With over 14 years of experience in the GIS/Surveying profession, **Trohn Enright-Randolph** is currently the elected County Surveyor for Monroe County after serving as the Chief Deputy Surveyor from 2005-2016. He also serves on the IGIC's Board of Directors and co-chairs IGIC's Cadastral, Boundaries, PLSS Workgroup.



Abstract:

A quick overview of the groundwork for the Survey Utility Application built using the Web AppBuilder through ArcGIS Online.

Scanning surveys, survey related documents and indexing them by township/range, section, year, surveyor, source, and a Reference Survey ID number.

Uploading documents to [Internet Archive](#). Internet Archive is a free online library with a mission to "Provide Universal Access to All Knowledge", and every document that we uploaded gets a predictable and permanent URL.

Built a geodatabase in ArcGIS Desktop, starting with a point location data on the section corner monuments that our Office has collected over the last 20 years. The locations are of varying quality, very little of it is survey grade.

Ran an ArcMap model that connected the section lines to our section corner points, and incorporated topology into the geodatabase layers so if we get a more accurate location of a point and need to adjust it, the section line is automatically adjusted.

Integrated indexing fields such as corner id, corner name, Section Number, and Township, as well as the Internet Archive hyperlinks to the tie-sheets into the geodatabase attribute values. We were very careful with our data entry, instead of typing information, we set up every field with ArcGIS domains, which basically means that values are selected from drop-down menus instead of typed in, this makes data entry quicker and more consistent.

Built an ArcMap Desktop template to manage and publish and/or overwrite an existing service (Feature layer). Opened the feature layer in Map Viewer and fine-tune it. The backend was built and we were ready to create and customized our Web App.

Demonstration of the [Monroe County Survey Utility Web App](#).